

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| S1    | 3    | 09/921711   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/03/02 10:22 |
| S2    | 1    | 10/635386   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2004/09/07 17:22 |
| S3    | 1    | "10754524"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2004/09/07 17:23 |
| S4    | 1    | "10793981"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2004/09/07 17:23 |
| S5    | 2    | "6067367".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/01/28 10:29 |
| S6    | 5492 | 382/100,106,277,278;396/125,<br>128;704/200,213,216,217,218,237,<br>263;367/37,38,39;359/306;708/5,426,<br>422,813;356/3,614.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/02/01 13:16 |
| S7    | 552  | S6 and (correlat\$7 match\$4 compar\$5<br>(auto adj correlat\$4)) and (peak max<br>"max." maximum tip) and (smear\$4<br>displac\$6 mov\$6 offset) and<br>resolution\$1 and (width wide)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/02/01 13:25 |
| S8    | 542  | S6 and (correlat\$7 match\$4 compar\$5<br>(auto adj correlat\$4)) and (peak max<br>"max." maximum tip) and (smear\$4<br>displac\$6 mov\$6 offset) and<br>resolution\$1 and (width wide) and<br>(magnitude\$1 value\$1 amplitude\$1) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/02/01 13:29 |
| S9    | 456  | S8 and imag\$4  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/02/01 13:33 |

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| S10 | 257  | S9 and zero and frequen\$4  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/01 13:35 |
| S11 | 302  | S9 and (zero naer3 offset\$) and frequen\$4   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/01 13:35 |
| S12 | 12   | S9 and (zero near3 offset\$) and frequen\$4   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/01 13:35 |
| S13 | 4542 | 382/100,106,278,151,<br>276;396/128;704/216,217,237,<br>263;359/561,306;708/5,422,426,813.<br>ccls. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/24 13:32 |
| S14 | 2982 | S13 and (correlat\$8 or registra\$7 or align\$6)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 09:49 |
| S15 | 812  | S14 and offset  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/24 13:35 |
| S16 | 315  | S15 and (peak top tip) and width  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/24 13:35 |
| S17 | 1295 | S13 and (imag\$3 near3 (correlat\$8 or registra\$7 or align\$6))                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/24 13:34 |
| S18 | 460  | S17 and offset  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/24 13:35 |
| S19 | 223  | S18 and (peak top tip) and width  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/24 13:35 |

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| S20 | 42    | S18 and ((peak top tip) same width)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/24 13:36 |
| S21 | 60024 | (correlat\$8 or registra\$7 or align\$6)<br>near4 imag\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 09:50 |
| S22 | 5456  | S21 and ((peak tip top "max."<br>maximum max) same width)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 09:51 |
| S23 | 88    | S22 and (auto adj correlat\$6)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 10:36 |
| S24 | 60024 | (correlat\$8 or registra\$7 or align\$6)<br>near4 imag\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 10:36 |
| S25 | 5456  | S24 and ((peak tip top "max."<br>maximum max) same width)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 10:36 |
| S26 | 88    | S25 and (auto adj correlat\$6)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 10:36 |
| S27 | 60    | S26 and offset\$1  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 10:39 |
| S28 | 3     | ((auto adj correlat\$6) near3 imag\$4)<br>same offset\$5 same (peak\$1 near6<br>width\$)                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 10:41 |
| S29 | 3     | ((auto adj correlat\$6) or<br>autocorrelat\$6) near3 imag\$4) same<br>offset\$5 same (peak\$1 near6 width\$) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 10:41 |

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| S30 | 215  | ((speckle\$1 or smear\$3) near3<br>imag\$4) same correlat\$6                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 13:34 |
| S31 | 8    | S30 and peak near4 width  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 13:34 |
| S32 | 10   | "5686720".pn.",4794384".pn.",<br>4967093".pn.",4671650".pn.",<br>5453840".pn. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 14:11 |
| S33 | 0    | "07129770".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 14:12 |
| S34 | 0    | "7129770".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 14:12 |
| S35 | 5    | "129770".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 14:12 |
| S36 | 0    | "007129770".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 14:12 |
| S37 | 0    | "047129770".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 14:13 |
| S38 | 0    | "07-129770".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 14:13 |
| S39 | 2636 | Hirooka.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 14:13 |
| S43 | 2063 | Hirooka.in.   | JPO   | OR | OFF | 2005/02/25 14:17 |

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| S44 | 13    | S43 and correlat\$5   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/25 14:17 |
| S45 | 2     | "5686720".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/26 14:55 |
| S46 | 12808 | 2382/100,106,278,313,316;250/208.1,<br>234,235,559.22,559.32,559.44,306,<br>307,559.4;356/3,614;358/473-475,<br>488,493,494.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/26 14:58 |
| S47 | 5733  | S46 and ((correlat\$5 compar\$5<br>match\$4 registra\$6 align\$7<br>correspond\$6 relation\$6) same<br>imag\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/05 11:52 |
| S49 | 12808 | 2382/100,106,278,313,316;250/208.1,<br>234,235,559.22,559.32,559.44,306,<br>307,559.4;356/3,614;358/473-475,<br>488,493,494.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/05 11:52 |
| S50 | 5733  | S49 and ((correlat\$5 compar\$5<br>match\$4 registra\$6 align\$7<br>correspond\$6 relation\$6) same<br>imag\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/05 11:53 |
| S51 | 1699  | S49 and offset\$5 and (width amplitude<br>diameter girth range span thickness<br>stretch)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/05 11:54 |
| S52 | 773   | S49 and offset\$5 and ((width<br>amplitude diameter girth range span<br>thickness stretch) same (peak tip<br>vertex top "max." max maximum<br>greatest summit crown crest zenith))    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/05 11:55 |
| S53 | 119   | S49 and (offset\$5 same ((width<br>amplitude diameter girth range span<br>thickness stretch) same (peak tip<br>vertex top "max." max maximum<br>greatest summit crown crest zenith))) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/26 15:30 |
| S54 | 2     | "20020105656".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 10:22 |

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| S55 | 1   | S54 and auto                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 10:24 |
| S56 | 1   | S54 and (auto adj corr\$7)                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 10:24 |
| S57 | 0   | S54 and self                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 10:24 |
| S58 | 0   | S54 and itself                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 10:25 |
| S59 | 423 | correlat\$8 same (peak near\$6 width)            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 10:43 |
| S60 | 178 | S59 and (offset\$1 or displacement\$1)           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 10:45 |
| S61 | 98  | S60 and imag\$3                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 10:44 |
| S62 | 112 | S59 and (offset\$1 or displac\$9) and<br>imag\$3 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 10:46 |
| S63 | 112 | S59 and (offset\$5 or displac\$9) and<br>imag\$3 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 14:55 |
| S64 | 2   | "6067367".pn.                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 13:27 |

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| S65 | 0   | S64 and (auto adj corr\$6)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 13:28 |
| S66 | 0   | S65 and (width or diameter)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 13:29 |
| S67 | 0   | S64 and wide  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 13:29 |
| S68 | 2   | "4671650".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 14:32 |
| S69 | 1   | S68 and (width or wide or diameter or range)                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 14:39 |
| S70 | 0   | S68 and (width or wide or diameter or range) and auto                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 14:39 |
| S71 | 0   | S68 and (width or wide or diameter or range) and (auto adj correlation) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 14:39 |
| S72 | 1   | S68 and (width or wide or diameter or range) and (correlat\$5)          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 14:43 |
| S73 | 2   | "4967093".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 14:43 |
| S74 | 423 | correlat\$8 same (peak near6 width)                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 14:55 |

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| S75 | 112 | S74 and (offset\$5 or displac\$9) and imag\$3    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 14:57 |
| S76 | 112 | S75 and (peak near6 (width diameter range wide)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 14:58 |
| S77 | 97  | S75 and (peak near3 (width diameter range wide)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 15:31 |
| S78 | 423 | correlat\$8 same (peak near6 width)              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 15:31 |
| S79 | 112 | S78 and (offset\$5 or displac\$9) and imag\$3    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 15:31 |
| S80 | 97  | S79 and (peak near3 (width diameter range wide)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 15:31 |
| S81 | 97  | S80 and imag\$4                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 16:02 |
| S82 | 66  | S81 and (speckle or displac\$7 or smear\$4)      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 15:34 |
| S83 | 19  | S82 and auto                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 15:35 |
| S84 | 17  | S82 and auto near3 correlat\$6                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/02 15:35 |



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| S85 | 15377 | 382/100,106,278,313,316;250/208.1,234,235,559.22,559.32,559.44,306,307,559.4;356/3,614;358/473-475,488,493,494.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/05 11:52 |
| S86 | 7616  | S85 and ((correlat\$5 compar\$5 match\$4 registra\$6 align\$7 correspond\$6 relation\$6) same imag\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/05 11:52 |
| S88 | 1675  | S86 and offset\$5 and (width amplitude diameter girth range span thickness stretch)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/05 11:54 |
| S89 | 787   | S87 and offset\$5 and ((width amplitude diameter girth range span thickness stretch) same (peak tip vertex top "max." max maximum greatest summit crown crest zenith)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/05 11:57 |
| S90 | 66    | S89 and ((zero or "no") near3 offset\$1)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/03/05 11:57 |